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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.		
08/822,033	03/24/1997	WAYNE A. MARASCO	43471-FWC 5884		
75	90 06/20/2005		EXAMINER		
Ronald I. Eisenstein NIXON PEABODY LLP			WOITACH, JOSEPH T		
101 Federal Str		·	ART UNIT PAPER NUMBER		
Boston, MA 02110			1632		
			DATE MAILED: 06/20/200	DATE MAILED: 06/20/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

## Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
08/822,033	MARASCO ET AL.	
Examiner	Art Unit	
Joseph T. Woitach	1632	

	Joseph T. Woitach	1632	
The MAILING DATE of this communication appe	ars on the cover sheet with the c	correspondence add	ress
THE REPLY FILED 09 June 2005 FAILS TO PLACE THIS APP		<u>-</u>	
<ol> <li>The reply was filed after a final rejection, but prior to or of this application, applicant must timely file one of the follo places the application in condition for allowance; (2) a No. (3) a Request for Continued Examination (RCE) in completion following time periods:</li> </ol>	n the same day as filing a Notice o wing replies: (1) an amendment, a otice of Appeal (with appeal fee) in	of Appeal. To avoid at affidavit, or other evidence ompliance with 37 (	ence, which CFR 41.31; or
a) $\square$ The period for reply expires $\underline{4}$ months from the mailing date of			
b) The period for reply expires on: (1) the mailing date of this Adviewent, however, will the statutory period for reply expire later that Examiner Note: If box 1 is checked, check either box (a) or (b).	an SIX MONTHS from the mailing date o	f the final rejection.	
MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f)			
Extensions of time may be obtained under 37 CFR 1.136(a). The date on been filed is the date for purposes of determining the period of extension a CFR 1.17(a) is calculated from: (1) the expiration date of the shortened sta above, if checked. Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	nd the corresponding amount of the fee. tutory period for reply originally set in the	The appropriate extension final Office action; or (2)	on fee under 37 as set forth in (b)
2. The Notice of Appeal was filed on A brief in comp	pliance with 37 CER 41 37 must be	a filed within two mon	the of the date
of filing the Notice of Appeal (37 CFR 41.37(a)), or any ex Since a Notice of Appeal has been filed, any reply must be	ktension thereof (37 CFR 41.37(e)	), to avoid dismissal o	of the appeal.
AMENDMENTS  The proposed amendment(s) filed offer a final rejection		£	<b>.</b>
3. The proposed amendment(s) filed after a final rejection, (a) They raise new issues that would require further contributed (b) They raise the issue of new matter (see NOTE below).	nsideration and/or search (see NO w);	TE below);	
(c)   ☐ They are not deemed to place the application in bet appeal; and/or	ter form for appeal by materially re	educing or simplifying	the issues for
(d) They present additional claims without canceling a	corresponding number of finally re	jected claims.	
NOTE: <u>See Continuation Sheet</u> . (See 37 CFR 1.1	` ''		
4. The amendments are not in compliance with 37 CFR 1.1		ompliant Amendment	(PTOL-324).
5. Applicant's reply has overcome the following rejection(s)			
6. Newly proposed or amended claim(s) would be a the non-allowable claim(s).	lowable if submitted in a separate	, timely filed amendm	ent canceling
7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is proposed amendment(s):		rill be entered and an	explanation of
The status of the claim(s) is (or will be) as follows:  Claim(s) allowed:			
Claim(s) objected to:			
Claim(s) rejected: <u>1 and 3-16</u> .			
Claim(s) withdrawn from consideration:			
AFFIDAVIT OR OTHER EVIDENCE			
<ol> <li>The affidavit or other evidence filed after a final action, be because applicant failed to provide a showing of good an and was not earlier presented. See 37 CFR 1.116(e).</li> </ol>			
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessar.	vercome all rejections under appe	al and/or appellant fa	ils to provide a
10.   The affidavit or other evidence is entered. An explanatio			• •
REQUEST FOR RECONSIDERATION/OTHER		•	
11. The request for reconsideration has been considered bu <u>See Continuation Sheet.</u>			nce because:
12. Note the attached Information Disclosure Statement(s).	(PTO/SB/08 or PTO-1449) Paper	No(s)	
13. Other:		_	
		-) or Wor	lac

U.S. Patent and Trademark Office PTOL-303 (Rev. 4-05)

AU1632

## Continuation Sheet (PTOL-303)

Application No.

Continuation of 3. NOTE:

Support in the specification for the proposed amendment to claim 1 appears to raise issues of new matter. Figure 2 appears to provide at least two sequences encoding the heavy and light chain of an antibody, and thus appears that what is specifically contemplated is a resulting protein with two amino and two carboxy terminals. This is consistent with providing other forms of antibodies such as a single chain antibody recited in other dependent claims. A new search and considereation for a single linear protein sequence would have done for related art and purposes of enablement regarding the ability of such a protein to specifically bind a target cell.

Continuation of 11. does NOT place the application in condition for allowance because: Applicants argue that providing a recombinantly made fusion protein provides unexpected properties over one made chemically. Further, it is argued that post-filing art and the declaration of Dr. Marsco provide evidence supporting this assertion. Additionally, it is argued that while the cited reference teaches making a fusion protein, this fusion protein was not used to deliver a nucleic acid. Applicants' arguments have been fully considered, but not found persuasive. As noted previously, Applicants arguments do not contest whether the cited references provide limitations that anticipate the embodiments of the claims nor the specific motivation for providing a recombinant fusion protein over a fusion protein made by chemical linkage. Applicants arguments focus primarily on the assertion that a recombinantly made protein would be more effective than one made chemically. Initially, it is noted that the present specfication does not provide any support for the fact that a recombinantly made protein would have any unique or unexpected property than one made recombinantly only that it could be assembele more readily or adapted more easily (see apge 5 for example). With regard to evidence in Li et al and discusion in the declaration of Dr. Marsco regarding the evidnece, Examiner would maintain that while one can compare qualitatively a quantitative comparison of the two compositions can not be done. As discussed previously, the differences between on how (or even why they were done) the experiments were conducted would not allow for a quantitative comparison. To make a informative quantitative comparision, the two compositions must be first somehow normalized to either binding capacity or even total protein used, then administered and compared directly. The difference in amount of fluorescence can not be attributed uniquely to the fusion protein and one has to take into the total of the two different experiments, for example amount/differences in the nucleic acid, the total amount of fusion protein used, the time at which expression was measured as examplifed by fluorescence which in this case is affected by how long the luciferase assay was allowed to proceed when the measurement was finally made. At the time of filing, there is no dispute that fusion protien can be made (noting that Wu prefers the use of a peptide bond as a linker p. 8), that fusion proteins were used to deliver polynucleotides, it is only contested that a recombinantly made fusion protein would be superior to one that was produced chemically. Given the evidence of record and in view of the breadth of the claims for a recombinant fusion protein made by any means ( i.e. in cells that would not make an active or secreted form that would require re-folding for example), Applicants arguments are not found persuasive for the reasons above and of record .